

TABLE OF CONTENTS

Home	16	Aviation and Space Education (AVED)	186
Catalog Introduction	17	Biochemistry (BIOC)	198
About the University	18	Biology (BIOL)	204
Academic Enrichment Programs	29	Biomedical Sciences (BIOM)	215
Administration	31	Biosystems & Ag Engineering (BAE)	224
Undergraduate Admissions	33	Business Administration (BADM)	231
International Undergraduate Admissions	40	Business Analytics (BAN)	235
Bursar	43	Business Communications (BCOM)	238
Registrar	47	Business Honors (BHON)	239
Scholarships and Financial Aid	55	Chemical Engineering (CHE)	240
Special Academic Services, Programs and Facilities	58	Chemistry (CHEM)	250
Student Services	70	Chinese (CHIN)	260
Tuition, Fees and Cost Estimates	78	Civil Engineering (CIVE)	261
University Police Services	86	College of Professional Studies (CPS)	280
Alumni Association, OSU Foundation, OSU Tulsa	89	Communication Sci & Disorders (CDIS)	281
Academic Calendar	91	Comparative Biomedical Sciences (CBSC)	287
Courses	93	Computer Science (CS)	292
Accounting (ACCT)	96	Construction Engineering Technology (CET)	304
Aerospace Studies - Air Force (AERO)	104	Counseling Psychology (CPSY)	308
African American Studies (AFAM)	106	Curriculum & Instruction Ed (CIED)	314
Ag International (AGIN)	108	Dance (DANC)	327
Agricultural Communications (AGCM)	110	Design & Merchandising (DM)	330
Agricultural Economics (AGEC)	114	Design Housing & Merchandising (DHM)	344
Agricultural Education (AGED)	123	Diversity (DIVR)	345
Agricultural Education, Communications, and Leadership (AECL)	127	Economics (ECON)	346
Agricultural Leadership (AGLE)	129	Education & Human Sciences (EDHS)	353
Agricultural Systems Technology (AST)	131	Educational Leadership (EDLE)	357
Agriculture (AG)	133	Educational Psychology (EPSY)	360
American Indian Studies (AMIS)	135	Educational Technology (EDTC)	365
American Sign Language (ASL)	136	Electr & Computer Engineering (ECEN)	369
American Studies (AMST)	139	Electronics Engineering Technology (EET)	382
Animal Science (ANSI)	144	Engineering & Technology Mgmt (ETM)	387
Anthropology (ANTH)	154	Engineering (ENGR)	391
Arabic (ARB)	156	Engineering Science (ENSC)	397
Architecture (ARCH)	157	English (ENGL)	399
Art (ART)	165	Entertainment Media (ENTM)	415
Arts & Sciences (A&S)	182	Entomology & Plant Pathology (ENPP)	417
Arts Administration (AADM)	184	Entomology (ENTO)	420
Astronomy (ASTR)	185	Entrepreneurship & Emerging Enterprises (EEE)	423
		Environmental Science (ENVR)	431
		Family Financial Planning (FFP)	439
		Finance (FIN)	442

Fire and Emergency Management Program (FEMP)	449	Management (MGMT)	651
Fire Protection & Safety Tech (FPST)	454	Management Science & Information Systems (MSIS)	663
Fire Safety & Explosion Protection (FSEP)	458	Marketing (MKTG)	673
Food Science (FDSC)	460	Mass Communications (MC)	681
Forensic Sciences (FRNS)	465	Master of Athletic Training (MAT)	687
Foundations of Education and Psychology (FDEP)	478	Master of Business Admin (MBA)	690
French (FREN)	479	Master of Public Health (MPH)	692
Gender and Women's Studies (GWST)	481	Materials Sci & Engineering (MSE)	695
General Engineering (GENG)	485	Mathematics (MATH)	699
General Technology (GENT)	486	Mechanical & Aerospace Eng (MAE)	715
Genetics (GENE)	487	Mechanical Engineering Tech (MET)	732
Geography (GEOG)	488	Mechatronics and Robotics (MERO)	736
Geology (GEOL)	504	Microbiology (MICR)	739
German (GRMN)	519	Military Science (MLSC)	749
Gifted and Talented Education (GTED)	522	Multimedia Journalism (MMJ)	751
Global Health (GLHE)	523	Music (MUSI)	754
Global Studies (GLST)	524	Music Industry (MSIN)	775
Global Studies (GS)	526	Natural Resource Ecology & Management (NREM)	776
Graduate (GRAD)	530	Nursing (NURS)	787
Greek (GREK)	532	Nutritional Sciences (NSCI)	791
Health (HLTH)	533	Opportunity Orange Scholars (OOS)	801
Health and Human Performance (HHP)	538	Organizational Leadership (ORGL)	804
Health Care Administration (HCA)	545	Petroleum Engineering (PETE)	805
Hebrew (HBRW)	552	Philosophy (PHIL)	808
Higher Education & Student Affairs (HESA)	553	Physician Assistant (PA)	819
History (HIST)	559	Physics (PHYS)	824
Honors (HONR)	576	Plant Biology (PBIO)	833
Horticulture (HORT)	581	Plant Pathology (PLP)	838
Hospitality & Tourism Management (HTM)	587	Plant Science (PLNT)	839
Human Development & Family Science (HDFS)	596	Political Science (POLS)	845
Industrial Engineering & Management (IEM)	617	Psychology (PSYC)	857
Interdisciplinary Toxicology (ITOX)	626	Public Safety (PSAF)	869
Japanese (JAPN)	628	Recreation Management & Recreational Therapy (RMRT)	870
Jazz (JAZZ)	629	Recreation Management (RM)	875
Korean (KRN)	632	Recreational Therapy (RT)	878
Landscape Architecture (LA)	633	Religious Studies (REL)	881
Language, Literacy and Culture (LLCE)	637	Research (RES)	885
Languages and Literatures (LL)	640	Research, Evaluation, Measurement & Statistics (REMS)	886
Latin (LATN)	644	Russian (RUSS)	888
Legal Studies in Business (LSB)	645	School Psychology (SPSY)	889
Leisure (LEIS)	648	Science & Math Education (SMED)	894
Library Science (LBSC)	650	Social Foundations (SCFD)	901

Sociology (SOC)	905	Biology	1102
Soil Science (SOIL)	914	Biology (BIO), Minor	1119
Spanish (SPAN)	919	Biology, BS	1120
Special Education (SPED)	923	Biology: Allied Health, BS	1123
Speech Communications (SPCH)	926	Biology: Environmental Biology, BS	1126
Sports Media (SPM)	928	Biology: Pre-Medical Sciences, BS	1129
Statistics (STAT)	930	Biology: Secondary Teacher Certification, BS	1132
Strategic Communication (SC)	938	Physiology, BS	1135
Theatre (TH)	943	Physiology: Pre-Medical Sciences, BS	1138
University (UNIV)	951	Plant Biology (PLB), Minor	1141
Veterinary Clinical Sciences (VCS)	954	Plant Biology, BS	1142
Veterinary Medical Education (VME)	961	Plant Biology: Cell Biology and Molecular Genetics, BS	1145
Veterinary Medicine (VMED)	966	Plant Biology: Ecology and Evolutionary Biology, BS	1148
Workforce and Adult Education (WAED)	972	Plant Biology: Pre-Forensics, BS	1151
Degree Programs	977	Plant Biology: Pre-Law Environmental Policy, BS	1154
Ethical Leadership, Undergraduate Certificate	1000	Plant Biology: Pre-Pharmacy, BS	1157
Undergraduate Research (UR), Undergraduate Certificate	1001	Zoology (ZOO), Minor	1160
University Studies, BUS	1002	Zoology, BS	1161
University Studies: Multidisciplinary Studies, BUS	1003	Zoology: Ecology and Conservation Biology, BS	1164
University Academic Regulations	1004	Zoology: Pre-Medical Sciences, BS	1167
College of Arts and Sciences	1018	Zoology: Pre-Veterinary Sciences, BS	1170
Aerospace Studies	1024	Zoology: Secondary Teacher Certification, BS	1173
Aerospace Studies (AERO), Minor	1026	Certificates	1176
American Studies	1027	Biblical Studies, UCRT	1177
American Studies (AMST), Minor	1033	Digital Studies, UCRT	1178
American Studies, BA	1034	eSports, UCRT	1179
American Studies, BS	1038	Pre-Health Care Administration, UCRT	1180
American Studies: American Indian Studies, BA	1042	Pre-Medical Sciences, UCRT	1181
American Studies: American Indian Studies, BS	1046	Chemistry	1182
American Studies: Business Essentials, BA	1050	Biochemistry, BS	1193
American Studies: Business Essentials, BS	1054	Chemistry (Approved by the American Chemical Society), BS	1196
American Studies: Pre-Law, BA	1058	Chemistry, BS	1199
American Studies: Pre-Law, BS	1061	Chemistry: Pre-Health, BS	1202
Truth and Reconciliation in the Americas (TRRA), Minor	1064	Chemistry: Secondary Teacher Certification, BS	1205
Art, Graphic Design and Art History	1065	Medicinal Chemistry, BS	1208
Art History (ARTH), Minor	1083	Chemistry (CHEM), Minor	1211
Art: Art History, BA	1084	Communication Sciences and Disorders	1212
Art: Graphic Design, BFA	1088	Audiology Assistants, UCRT	1220
Art: Studio Art, BA	1092	Communication Sciences and Disorders (CDIS), Minor	1221
Art: Studio, BFA	1096	Communication Sciences and Disorders, BS	1222
Pre-Art Therapy (PART), Minor	1100	Communication Sciences and Disorders, UCRT	1225
Studio Art (STDA), Minor	1101		

Dyslexia, UCRT	1226	Geospatial Information Science, BS	1368
Speech-Language Pathology Assistants, UCRT	1227	Geospatial Information Technologies (GSIT), Minor	1371
Computer Science	1228	Global Studies (GLST), Minor	1372
Applied Computer Programming (APCP), Minor	1241	Global Studies, BA	1373
Applied Computer Programming, BS	1242	Global Studies: Business Essentials, BA	1377
Computer Science (CS), Minor	1245	Global Studies: Pre-Law, BA	1381
Computer Science, BS	1246	Global Studies: Pre-Ministry, BA	1384
Cybersecurity, UCRT	1249	Geology (Boone Pickens School of Geology)	1387
Departments of Military Studies	1250	Environmental Geoscience, BS	1403
Economics	1252	Geology, BS	1406
Economics (Arts and Sciences) (ECAS), Minor	1262	Geology: Business Essentials, BS	1409
Economics, BS	1263	Geology: Environmental Geology, BS	1412
Economics: General Option, BA	1266	Geology: Petroleum Geology, BS	1415
Economics: International Economics Relations, BA	1269	Geology: Pre-Law, BS	1418
Economics: Pre-Dental, BS	1272	Geology: Secondary Teacher Certification, BS	1421
Economics: Pre-Medical, BS	1275	Geology (GEOL), Minor	1424
Economics: Pre-Veterinary, BS	1278	Geophysics, BS	1425
English	1281	Geophysics (GPHY), Minor	1428
Creative Writing (CRWR), Minor	1299	Oceanography (OCEN), Minor	1429
English (ENGL), Minor	1300	History	1430
English, BA	1301	Ancient and Medieval Studies (AAMS), Minor	1449
English: Creative Writing, BA	1304	History (HIST), Minor	1450
English: Pre-Law, BA	1307	History, BA	1451
English: Professional Writing, BA	1310	History: Business Essentials, BA	1455
English: Screen Studies, BA	1313	History: Pre-Law, BA	1459
Linguistics (LING), Minor	1316	Languages and Literatures	1463
Professional Writing (PRWR), Minor	1317	American Sign Language (ASL), Minor	1478
Publishing and Editing, UCRT	1318	American Sign Language Studies, BA	1479
Screen Studies (SCST), Minor	1319	American Sign Language Studies: ASL - English Interpreting, BA	1482
Teaching English to Speakers of Other Languages, UCRT ...	1320	American Sign Language, UCRT	1484
Gender, Women's and Sexuality Studies	1321	Arabic (ARB), Minor	1485
Gender, Women's and Sexuality Studies (GWS), Minor	1325	Chinese (CHIN), Minor	1486
Geography	1326	French (FREN), Minor	1487
Environmental Studies, UCRT	1347	French, BA	1488
Geographic Information Systems, CRT	1348	French: Business Essentials, BA	1491
Geography (GEOG), Minor	1349	French: Pre-Law, BA	1494
Geography, BA	1350	German (GRMN), Minor	1497
Geography, BS	1353	German, BA	1498
Geography: Business Essentials, BA	1356	German: Business Essentials, BA	1501
Geography: Business Essentials, BS	1359	German: Pre-Law, BA	1504
Geography: Pre-Law, BA	1362	Greek (GREK), Minor	1507
Geography: Pre-Ministry, BA	1365		

Japanese (JPN), Minor	1508	Military Science	1640
Korean (KRN), Minor	1509	Military Science (MLSC), Minor	1642
Latin (LATN), Minor	1510	Minors	1643
Professional Chinese (PRCH), Minor	1511	African American and Africana Studies (AFAA), Minor	1644
Professional Spanish, UCRT	1512	American Indian Studies (AMIS), Minor	1645
Russian (RUSS), Minor	1513	Asian Studies (ASTD), Minor	1646
Spanish (SPAN), Minor	1514	Central Asian Studies (CAST), Minor	1647
Spanish, BA	1515	Classical Studies (CLST), Minor	1648
Spanish: Business Essentials, BA	1518	European Studies (EUST), Minor	1649
Spanish: Pre-Law, BA	1521	Hispanic and Latin American Studies (HLAS), Minor	1651
Mathematics	1524	Middle East Studies (MES), Minor	1652
Actuarial Science (ACSC), Minor	1541	Russian and East European Studies (REES), Minor	1653
Mathematics (MATH), Minor	1542	Multidisciplinary Studies	1654
Mathematics, BA	1543	Interdisciplinary Studies, BA	1655
Mathematics, BS	1546	Interdisciplinary Studies, BS	1658
Mathematics: Actuarial Science and Financial Mathematics, BS	1549	Interdisciplinary Studies: Business Essentials, BA	1661
Mathematics: Applied Mathematics, BS	1552	Interdisciplinary Studies: Business Essentials, BS	1664
Mathematics: Data Science, BS	1556	Interdisciplinary Studies: Pre-Law, BA	1667
Mathematics: Pre-Law, BS	1559	Interdisciplinary Studies: Pre-Law, BS	1670
Mathematics: Pre-Medical Sciences, BS	1562	Music	1673
Mathematics: Secondary Teacher Certification, BS	1565	Applied Music (APMU), Minor	1695
Media and Strategic Communications	1568	Jazz (JAZZ), Minor	1696
Multimedia Journalism, BA	1585	Music (MUSI), Minor	1697
Multimedia Journalism, BS	1588	Music Composition and Theory (MUCT), Minor	1698
Sports Media, BA	1591	Music Education: Instrumental/Vocal Certification, BM	1699
Sports Media, BS	1594	Music Industry, BS	1704
Strategic Communication: Advertising and Public Relations, BA	1597	Music, BA	1707
Strategic Communication: Advertising and Public Relations, BS	1600	Music: Jazz Performance, BM	1710
Strategic Communication: Social Media, BA	1603	Music: Music Composition, BA	1713
Strategic Communication: Social Media, BS	1606	Music: Performance, BM	1716
Strategic Communication: Sport Communication, BA	1609	Philosophy	1720
Strategic Communication: Sport Communication, BS	1612	Ethics (ETHC), Minor	1737
Microbiology and Molecular Genetics	1615	Ethics, UCRT	1738
Microbiology (MICR), Minor	1626	Philosophy (PHIL), Minor	1739
Microbiology/Cell & Molecular Biology, BS	1627	Philosophy, BA	1740
Microbiology/Cell & Molecular Biology: Medical Laboratory Science, BS	1630	Philosophy: Ethics and Business Essentials, BA	1743
Microbiology/Cell and Molecular Biology: Pre-Medical/Pre-Dental, BS	1633	Philosophy: Ethics and Public Policy, BA	1746
Microbiology/Cell and Molecular Biology: Pre-Veterinary, BS	1637	Philosophy: Pre-Law, BA	1749
		Philosophy: Pre-Ministry, BA	1751
		The Art and Science of Critical Thinking (ASCT), Minor	1754
		The Art and Science of Critical Thinking, UCRT	1755
		Physics	1756

Physics (PHYS), Minor	1767	Sociology: Anthropology, BA	1894
Physics, BS	1768	Sociology: Anthropology, BS	1897
Physics: Applied Physics, BS	1771	Sociology: Criminology and Criminal Justice, BA	1900
Physics: Secondary Teacher Certification, BS	1773	Sociology: Criminology and Criminal Justice, BS	1903
Political Science	1776	Sociology: Environment and Society, BA	1906
Campaigns and Lobbying (CAML), Minor	1789	Sociology: Environment and Society, BS	1909
Intelligence and Security Analysis (INSA), Minor	1790	Sociology: Pre-Law, BS	1912
Law and Legal Studies (LLS), Minor	1791	Sociology: Pre-Medical Science, BS	1915
Political Science (POLS), Minor	1792	Sociology: Social Services, BA	1918
Political Science, BA	1794	Sociology: Social Services, BS	1921
Political Science, BS	1797	Statistics	1924
Political Science: Campaigns and Lobbying, BS	1800	Applied Statistics (APST), Minor	1933
Political Science: Global Politics, BA	1803	Statistical Data Science (SDSC), Minor	1934
Political Science: Global Politics, BS	1806	Statistics (STAT), Minor	1935
Political Science: Practical Politics - Campaigning, Lobbying and Policymaking, BA	1809	Statistics, BS	1936
Political Science: Pre-Law, BA	1812	Statistics: Actuarial Science, BS	1939
Political Science: Pre-Law, BS	1815	Statistics: Business Essentials, BS	1942
Political Science: Public Policy, BA	1818	Statistics: Data Science, BS	1945
Political Science: Public Policy, BS	1821	Theatre	1948
Psychology	1824	Acting, BFA	1959
Cognitive Science (CSCI), Minor	1838	Arts Administration (AADM), Minor	1962
Communication Studies (CMST), Minor	1839	Dance (DANC), Minor	1963
Neuroscience (NEUR), Minor	1840	Musical Theatre, BFA	1964
Psychology (PSYC), Minor	1841	Theatre (TH), Minor	1967
Psychology, BA	1842	Theatre, BA	1968
Psychology, BS	1846	College of Education and Human Sciences	1972
Psychology: Business Essentials, BA	1849	Design and Merchandising	1979
Psychology: Pre-Law, BA	1852	Apparel Design and Technology, BS	1989
Psychology: Pre-Med, BS	1856	Digital Design in Design and Merchandising, UCRT	1992
Psychology: Pre-Occupational Therapy, BS	1860	Fashion Design, UCRT	1993
Psychology: Pre-Physical Therapy, BS	1863	Fashion Design: Digital Product Creation, UCRT	1994
Speech Communication (SPCH), Minor	1866	Fashion Merchandising (FMER), Minor	1995
Religious Studies	1867	Fashion Merchandising, BS	1996
Religious Studies (REL), Minor	1872	Interior Design, BS	1999
Sociology	1873	Product Development for Apparel, UCRT	2002
Anthropology (ANTH), Minor	1884	Human Development and Family Science	2003
Criminology and Criminal Justice (CRCJ), Minor	1885	Aging Services (ASVC), Minor	2030
Social Justice (SOJU), Minor	1886	Child Development (CHDV), Minor	2031
Sociology (SOC), Minor	1887	Early Child Care and Development, BS	2032
Sociology, BA	1888	Human Development and Family Science: Child and Family Services, BS	2034
Sociology, BS	1891		

Human Development and Family Science: Early Childhood Education, BS	2037	Applied Exercise Science: Sport and Coaching Science, BS	2183
Human Development and Family Science: Family & Consumer Sciences Education, BS	2040	Applied Exercise Science: Strength and Conditioning, BS	2185
Human Services (HSVC), Minor	2043	Recreation and Athletic Management: Recreation Management, BS	2187
Nutritional Sciences	2044	Recreation Management (RM), Minor	2190
Nutritional Sciences (NSCI), Minor	2057	Recreational Therapy, BS	2191
Nutritional Sciences: Allied Health, BS	2058	Recreational Therapy: Pre-Professional Occupational Therapy, BS	2193
Nutritional Sciences: Dietetics, BS	2061	Sports and Coaching Science (SPCS), Minor	2196
Nutritional Sciences: Human Nutrition/Pre-Medical Sciences, BS	2063	School of Teaching, Learning and Educational Sciences	2197
Nutritional Sciences: Public Health Nutrition, BS	2066	Elementary Education, BS	2236
Post-Baccalaureate in Dietetics, UCRT	2069	Public School Support Specialist for Children At-Risk (PSSC), Minor	2239
Office of Educator Support	2070	Secondary Education: English - Alternative Certification, BS	2240
School of Community Health Sciences, Counseling and Counseling Psychology	2076	Secondary Education: English, BS	2242
Nursing, BSN	2092	Secondary Education: Mathematics, BS	2245
Nursing: RN to BSN, BS	2094	Secondary Education: Science, BS	2248
Pre-Counseling (PCOU), Minor	2096	Secondary Education: Social Studies - Alternative Education, BS	2254
Pre-Nursing, UCRT	2097	Secondary Education: Social Studies, BS	2256
Public Health (PH), Minor	2098	Special Education (SPED), Minor	2259
Public Health, UCRT	2099	Special Education, UCRT	2260
Public Health: Community Health, BS	2100	College of Engineering, Architecture and Technology	2261
Public Health: Exercise and Health, BS	2102	Biosystems and Agricultural Engineering	2267
School of Educational Foundations, Leadership and Aviation	2104	CEAT Dean's Office and CEAT Online Learning	2275
Aerospace Administration and Operations: Aerospace Security (AAAS), Minor	2145	Nuclear Engineering (NENG), Minor	2276
Aerospace Administration and Operations: Aerospace Security, BS	2146	Chemical Engineering	2277
Aerospace Administration and Operations: Aviation Management (AAAM), Minor	2148	Chemical Engineering, BSCH	2290
Aerospace Administration and Operations: Aviation Management, BS	2149	Chemical Engineering: Biomedical/Biochemical, BSCH	2292
Aerospace Administration and Operations: Professional Pilot (AAPP), Minor	2151	Chemical Engineering: Pre-Medical, BSCH	2294
Aerospace Administration and Operations: Professional Pilot, BS	2152	Petroleum Engineering (PETE), Minor	2296
Aerospace Administration and Operations: Technical Service Management, BS	2154	Civil and Environmental Engineering	2297
Creativity Studies (CRST), Minor	2156	Civil Engineering, BSCV	2318
Instructional Design, UCRT	2157	Civil Engineering: Environmental, BSCV	2320
Learning and Motivation (LEMO), Minor	2158	Environmental Engineering (EVEN), Minor	2322
Learning and Motivation, UCRT	2159	Electrical and Computer Engineering	2323
School of Kinesiology, Applied Health and Recreation	2160	Computer Engineering (CPE), Minor	2340
Applied Exercise Science: Pre-Professional, BS	2180	Computer Engineering, BSCP	2341
		Computer Engineering: Software Engineering, BSCP	2343
		Electrical Engineering (ELEN), Minor	2345
		Electrical Engineering, BSEE	2346
		Engineering and Technology Management	2348

Fire, Construction and Emergency Management	2353	Agricultural Communications, BSAG	2483
Construction (CNST), Minor	2366	Agricultural Economics	2485
Construction Engineering Technology: Building, BSET	2367	Agribusiness, BSAG	2496
Construction Engineering Technology: Heavy, BSET	2369	Agribusiness: Accounting Double Major, BSAG	2498
Construction, UCRT	2371	Agribusiness: Agricultural Communications Double Major, BSAG	2500
Emergency Management (EM), Minor	2372	Agribusiness: Community and Regional Analysis, BSAG	2502
Fire Protection and Safety Engineering Technology, BSET ...	2373	Agribusiness: Crop and Soil Sciences, BSAG	2504
Safety and Exposure Sciences (SAES), Minor	2376	Agribusiness: Farm and Ranch Management, BSAG	2506
Industrial Engineering and Management	2377	Agribusiness: International, BSAG	2508
Data Analytics for Engineers (DAEN), Minor	2388	Agribusiness: Natural Resources, BSAG	2510
Industrial Engineering and Management, BSIE	2389	Agribusiness: Pre-Law, BSAG	2512
Supply Chain and Logistics, UCRT	2391	Agribusiness: Pre-Veterinary Business Management, BSAG	2515
Materials, Mechatronics and Manufacturing Engineering	2392	Agricultural Economics and Agribusiness (AEAB), Minor	2517
Electrical Engineering Technology, BSET	2406	Agricultural Economics, BSAG	2518
Electrical Engineering Technology: Computer, BSET	2408	Agricultural Real Estate Appraisal (AREA), Minor	2520
Mechanical Engineering Technology, BSET	2410	Environmental Economics, Politics and Policy (EEPP), Minor	2521
Mechatronic Engineering Technology for EET Students (EETM), Minor	2412	Agricultural Education	2522
Mechatronic Engineering Technology for MET Students (METM), Minor	2413	Agricultural Education: Multidisciplinary, BSAG	2527
Mechatronics and Robotics, BS	2414	Agricultural Leadership	2529
Mechanical and Aerospace Engineering	2416	Agricultural Leadership (AGLE), Minor	2532
Aerospace Engineering, BSAE	2436	Agricultural Leadership, BSAG	2533
Mechanical Engineering, BSME	2438	Agricultural Leadership: Extension Education, BSAG	2535
Mechanical Engineering: Fire Protection Systems, BSME	2440	Agricultural Leadership: International Studies, BSAG	2537
Mechanical Engineering: Petroleum, BSME	2442	Animal and Food Sciences	2539
Mechanical Engineering: Pre-Medical, BSME	2444	Animal Science (ANSI), Minor	2551
School of Architecture	2446	Animal Science: Business/Pre-Law, BSAG	2552
Architectural Design Studies: Design Management and Leadership, BS	2459	Animal Science: General Option, BSAG	2554
Architectural Design Studies: Design Thinking and Communication, BS	2461	Animal Science: Pre-Veterinary/Pre-Medical, BSAG	2556
Architectural Design Studies: Design, Culture and Urban Studies, BS	2463	Animal Science: Production and Operations, BSAG	2558
Architectural Engineering: Construction Project Management, BEN	2465	Equine Enterprise Management, UCRT	2560
Architectural Engineering: Structures, BEN	2467	Food Safety, UCRT	2561
Architectural Studies: Architecture and Entrepreneurship (ASAE), Minor	2469	Food Science (FDSC), Minor	2562
Architectural Studies: Design (ASDS), Minor	2470	Food Science, BSAG	2563
Architectural Studies: History and Theory (ASHT), Minor	2471	Biochemistry and Molecular Biology	2565
Architecture, BAR	2472	Biochemistry (BIOC), Minor	2573
Ferguson College of Agriculture	2474	Biochemistry and Molecular Biology, BSAG	2574
Agricultural Communications	2478	Biochemistry and Molecular Biology: Biotechnology, BSAG	2576
		Biochemistry and Molecular Biology: Pre-Medical or Pre-Veterinary Science, BSAG	2578

Biosystems and Agricultural Engineering	2580	Natural Resource Ecology & Management: Wildlife Ecology & Management, BSAG	2684
Agricultural Systems Technology, BSAG	2588	Natural Resource Ecology and Management (NREM), Minor	2686
Biosystems Engineering: Bioprocessing & Food Processing, BSBE	2590	Rangeland Ecology and Management (REM), Minor	2687
Biosystems Engineering: Biosystems Engineering, BSBE	2592	Wildlife Ecology (WLEC), Minor	2688
Biosystems Engineering: Environmental and Natural Resources, BSBE	2594	Plant and Soil Sciences	2689
Biosystems Engineering: Machine Systems & Agricultural Engineering, BSBE	2596	Agronomy (AGRN), Minor	2701
Biosystems Engineering: Pre-Medical, BSBE	2598	Plant and Soil Sciences: Agronomic Business, BSAG	2702
Entomology and Plant Pathology	2600	Plant and Soil Sciences: Crop Production and Management, BSAG	2704
Entomology (ENTO), Minor	2606	Plant and Soil Sciences: Plant Biotechnology and Improvement, BSAG	2706
Entomology: Insect Biology and Ecology, BSAG	2607	Plant and Soil Sciences: Soil and Water Resources, BSAG ..	2708
Entomology: Pre-Professional, BSAG	2609	Soil Science (SOIL), Minor	2710
Pest Management (PEST), Minor	2611	School of Global Studies	2711
Pest Management, UCRT	2612	International Studies (INTL), Minor	2717
Environmental Sciences	2613	Spears School of Business	2718
Environmental Science (ENVR), Minor	2621	Certificates	2723
Environmental Science: Environmental Policy, BSAG	2622	Business Essentials, UCRT	2724
Environmental Science: Natural Resources, BSAG	2624	Business Financial Essentials, UCRT	2725
Environmental Science: Water Resources, BSAG	2626	Economics	2726
Horticulture and Landscape Architecture	2628	Computational Economics and Data Analysis, UCRT	2734
Horticulture (HORT), Minor	2639	Economics (ECBU), Minor	2735
Horticulture: Horticultural Business, BSAG	2640	Economics, BSBA	2736
Horticulture: Horticultural Food Safety, BSAG	2642	Economics: Business Economics and Quantitative Studies, BSBA	2738
Horticulture: Horticultural Science, BSAG	2644	Economics: Pre-Law, BSBA	2740
Horticulture: Landscape Management, BSAG	2646	General Business (GNBU), Minor	2742
Horticulture: Public Horticulture, BSAG	2648	General Business, BSBA	2743
Horticulture: Turf Management, BSAG	2650	General Business: Pre-Law, BSBA	2745
Horticulture: Urban Horticulture, BSAG	2652	Finance	2747
Landscape Architecture, BLA	2654	Energy Finance (EFIN), Minor	2755
International Agriculture	2656	Finance (FIN), Minor	2756
Natural Resource Ecology and Management	2659	Finance: Commercial Bank Management Option, BSBA	2757
Fisheries and Aquatic Ecology (FAEC), Minor	2672	Finance: Financial Analyst Option, BSBA	2759
Forestry (FOR), Minor	2673	Finance: Financial Planning, BSBA	2761
Natural Resource Ecology & Management: Fisheries & Aquatic Ecology, BSAG	2674	Finance: General Option, BSBA	2763
Natural Resource Ecology & Management: Forest Ecology & Management, BSAG	2676	Finance: Pre-Law, BSBA	2765
Natural Resource Ecology & Management: Rangeland Ecology & Management, BSAG	2678	Hospitality and Tourism Management	2767
Natural Resource Ecology & Management: Wildlife Biology & Preveterinary Science, BSAG	2681	Casino, Gaming and Resort Management, UCRT	2777
		Event Management (EVMG), Minor	2778
		Event Management, UCRT	2779

Global Beverage Business, UCRT	2780	Accounting: Internal Reporting, Control and Auditing, BSBA	2870
Hospitality and Tourism Management, BSBA	2781	School of Entrepreneurship	2873
Hospitality and Tourism Management: Event Management, BSBA	2783	Entrepreneurship (EEE), Minor	2878
Hospitality Business Administration (HOSB), Minor	2785	Entrepreneurship, BSBA	2879
Property and Real Estate Management, UCRT	2786	Starting and Growing a New Business, UCRT	2881
Real Estate and Property Management, BSBA	2787	School of Marketing and International Business	2882
Travel and Tourism Management, UCRT	2790	International Business (INBU), Minor	2893
Management	2791	International Business, BSBA	2894
Business Sustainability and Nonprofit Management (BSNM), Minor	2804	International Business, UCRT	2897
Human Resource Management (HRM), Minor	2805	Marketing (MKTG), Minor	2898
Management (MGMT), Minor	2806	Marketing Essentials for Business Success, UCRT	2899
Management, BSBA	2807	Marketing, BSBA	2900
Management: Business Sustainability and Nonprofit Management, BSBA	2809	Marketing: Marketing Communications Management, BSBA	2902
Management: Human Resource Management, BSBA	2812	Marketing: Marketing Research and Analytics, BSBA	2904
Management: Management Consulting, BSBA	2814	Marketing: Professional Selling and Sales Management, BSBA	2906
Management: Pre-Law, BSBA	2816	Marketing: Sports Marketing and Revenue Generation, BSBA	2908
Management: Sports Management, BSBA	2818	Marketing: Supply Chain Management, BSBA	2910
Sports Management (SPMG), Minor	2820	Sales and Service Excellence, UCRT	2912
Sustainable Business Management, UCRT	2821	Sports Marketing and Revenue Generation, UCRT	2913
Management Science and Information Systems	2822	Watson Graduate School	2914
Business Analytics, UCRT	2834	The Honors College	2917
Cyber Systems, UCRT	2835	Graduate College	2927
Data Analytics, BSBA	2836	Doctoral Degree Programs	2954
Data Science (DS), Minor	2838	Agricultural Economics, PhD	2955
Data Systems, UCRT	2839	Agricultural Education, Communications, and Leadership, PhD	2956
Information Assurance (IA), Minor	2840	Animal Science, PhD	2957
Information Systems Development, UCRT	2841	Applied Educational Studies: Aviation and Space Education, EdD	2958
Management Information Systems (MIS), Minor	2842	Biochemistry and Molecular Biology, PhD	2959
Management Information Systems, BSBA	2843	Biomedical Sciences, PhD	2960
Management Information Systems: Data Science, BSBA	2846	Biosystems Engineering, PhD	2962
Management Information Systems: Information Assurance, BSBA	2848	Business Administration, DBA	2963
Supply Chain Management, UCRT	2851	Business Administration: Accounting, PhD	2964
School of Accounting	2852	Business Administration: Entrepreneurship, PhD	2965
Accounting (ACCT), Minor	2861	Business Administration: Executive Research, PhD	2966
Accounting Systems: Cyber Audit, BSBA	2862	Business Administration: Finance, PhD	2967
Accounting Systems: Data Analytics, BSBA	2864	Business Administration: Hospitality and Tourism Management, PhD	2968
Accounting, Systems, and Auditing, UCRT	2866		
Accounting: External Reporting, Control, and Auditing, BSBA	2867		

Business Administration: Management Science and Information Systems, PhD	2969	Health Care Administration, DHCA	3010
Business Administration: Management, PhD	2970	Health, Leisure and Human Performance: Health and Human Performance, PhD	3011
Business Administration: Marketing, PhD	2971	Health, Leisure and Human Performance: Leisure Studies, PhD	3012
Chemical Engineering, PhD	2972	History, PhD	3014
Chemistry, PhD	2973	Human Development and Family Science, PhD	3015
Civil Engineering, PhD	2974	Human Sciences: Design and Merchandising, PhD	3016
Community Health Sciences, PhD	2975	Human Sciences: Human Development and Family Science, PhD	3017
Comparative Biomedical Sciences, PhD	2976	Industrial Engineering and Management, PhD	3018
Computer Science, PhD	2977	Integrative Biology, PhD	3019
Counseling Psychology, PhD	2978	Language, Literacy, and Culture Education, EdS	3020
Crop Science, PhD	2979	Learning, Design and Technology, EdD	3021
Curriculum Studies: College Curriculum and Teaching, PhD	2980	Learning, Design and Technology, PhD	3022
Curriculum Studies: Curriculum and Leadership, PhD	2981	Materials Science and Engineering, PhD	3023
Curriculum Studies: International and Peace Curriculum, PhD	2982	Mathematics, PhD	3025
Economics, PhD	2983	Mechanical and Aerospace Engineering, PhD	3026
Education: Educational Administration, EdS	2984	Mechanical and Aerospace Engineering: Unmanned Aerial Systems, PhD	3027
Education: Learning, Design and Technology, PhD	2985	Microbiology, Cell and Molecular Biology, PhD	3028
Education: Literacies and Language Arts Education, PhD	2986	Natural Resource Ecology and Management, PhD	3029
Education: Mathematics Education, PhD	2987	Natural Resource Ecology and Management: Fisheries and Aquatic Ecology, PhD	3030
Education: Science Education, PhD	2988	Natural Resource Ecology and Management: Forest Resources, PhD	3031
Education: Social Foundations of Education, PhD	2989	Natural Resource Ecology and Management: Rangeland Ecology and Management, PhD	3032
Education: Special Education, PhD	2991	Natural Resource Ecology and Management: Wildlife Ecology and Management, PhD	3033
Education: Workforce and Adult Education, PhD	2992	Nutritional Sciences, PhD	3034
Educational Leadership and Policy Studies: Educational Administration, PhD	2993	Petroleum Engineering, PhD	3036
Educational Leadership and Policy Studies: Higher Education, PhD	2994	Photonics, PhD	3037
Educational Psychology: Educational Psychology, PhD	2995	Physics, PhD	3039
Educational Psychology: Research, Evaluation, Measurement and Statistics, PhD	2996	Plant Biology, PhD	3040
Electrical Engineering, PhD	2997	Plant Pathology, PhD	3041
English, PhD	2998	Psychology: Clinical, PhD	3042
Entomology, PhD	2999	Psychology: Experimental Psychology, PhD	3043
Environmental Science, PhD	3000	School Administration, EdD	3044
Fire and Emergency Management Administration, PhD	3001	School Psychology, EdS	3045
Food Science, PhD	3002	School Psychology, PhD	3046
Forensic Sciences, DFS	3003	Sociology, PhD	3047
Forensic Sciences, PhD	3005	Soil Science, PhD	3048
Geography, PhD	3007	Statistics, PhD	3049
Geology, PhD	3008		
Health and Human Performance, PhD	3009		

Graduate Certificates	3050	Forensic Investigative Sciences, GCRT	3091
3D Fashion Design/Digital Product Creation, GCRT	3051	Forensic Psychology, GCRT	3093
Accounting, GCRT	3052	Forensic Threat Assessment and Management, GCRT	3094
Advanced Sports Medicine Concepts, GCRT	3053	Forensic Weapons of Mass Destruction Investigation, GCRT	3095
Aging Studies, GCRT	3054	Geographic Information Systems, GCRT	3096
Aviation/Aerospace Administration, GCRT	3055	Global Issues, GCRT	3097
Big Data Analytics, GCRT	3056	Grassland Management, GCRT	3098
Bioinformatics, GCRT	3057	Health Analytics, GCRT	3099
Brand Communication, GCRT	3058	Health Care Administration, GCRT	3100
Building Level Leadership, GCRT	3059	Health Care Administration: Compliance, GCRT	3101
Business Analytics and Data Science, GCRT	3060	Health Care Administration: Finance, GCRT	3102
Business Sustainability and Nonprofit Management, GCRT	3061	Health Care Administration: Global Health, GCRT	3103
Business, GCRT	3062	Hidden Student Populations, GCRT	3104
Casino and Gaming Management, GCRT	3063	Hospitality and Tourism Analytics, GCRT	3105
Collaborative Piano, GCRT	3064	Human Resource Management, GCRT	3106
College Teaching, GCRT	3065	Infant Mental Health, GCRT	3107
Comparative and International Education, GCRT	3066	Information Assurance, GCRT	3108
Developmental Disabilities, GCRT	3067	Innovative Leadership, GCRT	3109
Dietetics, GCRT	3068	Integrative Design of Building Envelope, GCRT	3110
Digital Design in Design & Merchandising, GCRT	3069	Interdisciplinary Toxicology, GCRT	3111
Digital Forensics & Incident Response, GCRT	3070	International Disaster and Emergency Management, GCRT	3112
District Level Leadership, GCRT	3071	K-12 STEM Educator, GCRT	3113
Dyslexia, GCRT	3072	Learning and Motivation, GCRT	3114
Educational and Psychological Measurement, GCRT	3073	Marketing Analytics, GCRT	3115
Effective Teaching in Elementary Schools, GCRT	3074	Mathematics, GCRT	3116
Effective Teaching in Secondary Schools, GCRT	3075	Medical Sciences, GCRT	3117
Elementary Mathematics Specialist, GCRT	3076	Museum and Curatorial Studies, GCRT	3118
Energy Business, GCRT	3077	Neuroscience, GCRT	3119
Engineering and Technology Management, GCRT	3078	Non-Profit Management, GCRT	3120
Entrepreneurship, GCRT	3079	Online Teaching, GCRT	3121
Environmental Science with Regulatory Certifications, GCRT	3080	Program Evaluation, GCRT	3122
Facilitating Career Development, GCRT	3081	Public Health in Rural and Underserved Communities, GCRT	3123
Family Financial Planning, GCRT	3082	Quantum Information Science, GCRT	3124
Fashion Merchandising, GCRT	3083	Recreation and Leisure Management, GCRT	3125
Finance and Investment Banking, GCRT	3084	School Library Certification, GCRT	3126
Food Safety Management, GCRT	3085	Special Education, GCRT	3127
Food Safety Science, GCRT	3086	Sport Communication, GCRT	3128
Forensic Arson, Explosives, Firearms, and Toolmarks Investigation, GCRT	3087	Statistical Methods and Analyses in Educational and Behavioral Sciences, GCRT	3129
Forensic Crime Analysis, GCRT	3089	Substance Abuse Counseling, GCRT	3130
Forensic Investigation of Impaired Driving, GCRT	3090		

Supply Chain and Logistics, GCRT	3131	Computer Science, MS	3175
Teaching English to Speakers of Other Languages, GCRT ...	3132	Counseling Psychology, MS	3176
Tribal Health Care Administration, GCRT	3133	Counseling: Mental Health Counseling, MS	3177
Workforce and Adult Education, GCRT	3134	Counseling: School Counseling, MS	3179
Master's Degree Programs	3135	Data Science: Engineering, MS	3181
Accounting Systems: Cyber Audit, MS	3137	Design and Merchandising: Apparel Design and Production, MS	3182
Accounting Systems: Data Analytics, MS	3138	Design and Merchandising: Digital Design, MS	3183
Accounting, MS	3139	Design and Merchandising: Interior Design, MS	3184
Accounting: Corporate Finance, MS	3140	Design and Merchandising: Merchandising, MS	3185
Accounting: Data Analytics & Systems, MS	3141	Design and Merchandising: Retail Merchandising Leadership, MS	3186
Accounting: Financial Reporting & Auditing, MS	3142	Dietetics, MS	3187
Accounting: Research Methods, MS	3143	Economics, MS	3188
Accounting: Tax, MS	3144	Educational Leadership Studies: Higher Education, MS	3189
Aging Studies, MS	3145	Educational Leadership Studies: School Administration, MS	3190
Agricultural Communications, MS	3146	Educational Leadership Studies: Student Affairs, MS	3191
Agricultural Economics, MS	3147	Educational Leadership Studies: Workforce and Adult Education, MS	3192
Agricultural Education and Leadership, MS	3149	Educational Psychology: Educational Psychology, MS	3193
Animal Science, MS	3150	Educational Psychology: Research, Evaluation, Measurement and Statistics, MS	3194
Applied Statistics, MS	3151	Educational Psychology: School Psychometrics, MS	3195
Art History, MA	3152	Educational Technology: Educational Technology, MS	3196
Artificial Intelligence: Computer Engineering, MS	3153	Educational Technology: School Library Media, MS	3197
Artificial Intelligence: Computer Science, MS	3154	Electrical Engineering, MEN	3198
Artificial Intelligence: Health Care Administration, MS	3155	Electrical Engineering, MS	3199
Athletic Training, MAT	3156	Engineering and Technology Management, MS	3200
Aviation and Space, MS	3157	Engineering Technology: Fire Safety and Explosion Protection, MS	3201
Biochemistry and Molecular Biology, MS	3158	Engineering Technology: Mechatronics & Robotics, MS	3202
Biomedical Sciences, MS	3159	English, MA	3204
Biosystems Engineering, MS	3162	English: Creative Writing, MFA	3205
Business Administration, MBA	3163	English: Professional Writing, MA	3206
Business Analytics and Data Science, MS	3165	English: Teaching English to Speakers of Other Languages, MA	3208
Business Analytics and Data Science: Advanced Data Science, MS	3166	Entomology and Plant Pathology: Entomology, MS	3210
Business Analytics and Data Science: Cybersecurity Analytics, MS	3167	Entomology and Plant Pathology: Plant Pathology, MS	3211
Business Analytics and Data Science: Health Analytics, MS	3168	Entrepreneurship, MS	3212
Business Analytics and Data Science: Marketing Analytics, MS	3169	Environmental Engineering, MS	3213
Chemical Engineering, MS	3170	Environmental Science, MS	3214
Chemistry, MS	3171	Environmental Science: Environmental Management Professional Science Masters, PSM	3215
Civil Engineering, MS	3172		
Communication Sciences and Disorders, MS	3173		
Comparative Biomedical Sciences, MS	3174		

Family and Community Services, MS	3216	Management Information Systems: Big Data Analytics, MS	3263
Family and Consumer Sciences Education, MS	3217	Management Information Systems: Cybersecurity, MS	3264
Family Financial Planning, MS	3218	Management Information Systems: Health Analytics, MS ...	3265
Fire and Emergency Management Administration, MS	3219	Mass Communications, MS	3266
Food Science, MS	3221	Materials Science and Engineering, MEN	3268
Forensic Sciences, MS	3222	Materials Science and Engineering, MS	3269
Forensic Sciences: Arson, Explosives, Firearms and Toolmarks Investigation, MS	3225	Mathematics, MS	3272
Forensic Sciences: Forensic Science Administration, MS	3227	Mechanical and Aerospace Engineering, MEN	3274
General Agriculture: Agribusiness, MAG	3228	Mechanical and Aerospace Engineering, MS	3275
General Agriculture: Agricultural Leadership, MAG	3230	Mechanical and Aerospace Engineering: Unmanned Aerial Systems, MS	3276
Geography, MS	3231	Medical Sciences, MS	3277
Geology, MS	3233	Microbiology, Cell and Molecular Biology, MS	3278
Geoscience, MPSM	3235	Music: Applied Music, MM	3279
Global Health, MS	3237	Music: Conducting, MM	3280
Global Studies, MS	3238	Music: Multiple Woodwinds, MM	3281
Graphic Design, MFA	3239	Natural Resource Ecology and Management, MS	3282
Health and Human Performance: Applied Exercise Science, MS	3240	Natural Resource Ecology and Management: Fisheries and Aquatic Ecology, MS	3283
Health and Human Performance: Health Promotion, MS	3241	Natural Resource Ecology and Management: Forest Resources, MS	3284
Health and Human Performance: Physical Education, MS ...	3242	Natural Resource Ecology and Management: Rangeland Ecology and Management, MS	3285
Health Care Administration, MS	3243	Natural Resource Ecology and Management: Wildlife Ecology and Management, MS	3286
History, MA	3244	Nutritional Sciences: Dietetics Practice, MS	3287
Horticulture, MS	3245	Nutritional Sciences: Dietetics Research, MS	3288
Hospitality and Tourism Management, MS	3246	Nutritional Sciences: Nutrition, MS	3290
Human Development and Family Science: Aging Sciences, MS	3248	Peace, Conflict, and Security Studies, MA	3292
Human Development and Family Science: Applied Human Services, MS	3249	Petroleum Engineering, MS	3293
Human Development and Family Science: Developmental and Family Sciences, MS	3250	Philosophy, MA	3294
Human Development and Family Science: Early Childhood Education, MS	3251	Physician Assistant Studies, MS	3295
Human Development and Family Science: Marriage and Family Therapy, MS	3252	Physics, MS	3296
Industrial Engineering and Management, MS	3254	Physics: Optics and Photonics, MS	3297
Industrial Engineering and Management: Operations Research and Analytics, MS	3255	Plant and Soil Sciences, MS	3298
Industrial Engineering and Management: Supply Chain and Logistics, MS	3256	Plant Biology, MS	3299
Integrative Biology, MS	3257	Politics and Policy Studies, MA	3300
Interdisciplinary Studies, MS	3258	Public Health, MPH	3301
International Agriculture, MAG	3259	Public Health: Rural and Underserved Populations, MPH	3302
International Agriculture, MS	3260	Quantitative Finance, MS	3304
Management Information Systems, MS	3262	Recreation Management and Recreational Therapy, MS	3305
		Social Foundations of Education, MA	3306
		Sociology, MS	3307

Statistics, MS	3308
Teaching, Learning and Leadership: Curriculum and Leadership Studies, MS	3309
Teaching, Learning and Leadership: Gifted and Talented Education, MS	3310
Teaching, Learning and Leadership: K-12 Education, MS	3311
Teaching, Learning and Leadership: Mathematics/Science Education, MS	3313
Teaching, Learning and Leadership: Reading and Literacy, MS	3314
Teaching, Learning and Leadership: Special Education, MS	3315
Teaching, Learning and Leadership: Workforce and Adult Education, MS	3316
Theatre, MA	3317
Center for Health Sciences	3318
College of Professional Studies	3324
Entertainment Media, BPS	3325
Health Care Administration, BPS	3327
Organizational Leadership, BPS	3328
Public Safety, BPS	3329
College Veterinary Medicine	3330
Veterinary Clinical Sciences	3333
Veterinary Pathobiology	3335
Physiological Sciences	3336
Degree Programs	3337
Comparative Biomedical Sciences, MS	3338
Comparative Biomedical Sciences, PhD	3338
Veterinary Medicine, DVM	3338
Index	3340